

On the Cauchy Problem for Nonlinear Equations  
in a Class of Discontinuous Functions, by  
O. A. Oleinik, 11pp  
RUSSIAN, per, Akademiya Nauk SSSR, Vol 95, 1954,  
No 3, pp 451-454  
OTS TT-64-71243

Sci - Math  
May 67

325,982

The Development and Adoption of a Technique for  
Casting High-Strength Iron, by I. P. Petrov.

RSSSR, per, Akad Nauk SSSR, 1955, pp 192-199.

EAST 1103

Sci - N/M  
May 63

231,891

Asymptotic Expansions for the Distribution of  
Maximum Deviations in the Bernoulli Scheme, by  
V. S. Korolyuk, 8pp  
RUSSIAN, per, Akademiya Nauk SSSR, Vol 108,  
1956, No 2, pp 183-186  
OTS TT-64-71239

Sci - Math  
May 67

325,979

Morphology and Dynamics of the Soviet Coast  
of the Black Sea, by V. P. Zenkovich, 72pp.

RUSSIAN, pbx, Akad Nauk SSSR, Vol 1, 1956,  
pp 68-78, KBS 100-109, 126-146, 165-175.

Dept of Interior  
GCL U54 no.141

Sci-Biol & Med Sci  
Jan 64

246.268

The Distribution of the Haddock, 1953-  
1955, by R. Ya. Tseeb.  
RUSSIAN, per, Akad Nauk SSSR, 1958,  
pp 228-233.  
NLL 9022.56 1963 (21) (On Loan)

Aug 65

286,936

Fishes of the Sea of Japan and The Adjacent  
Areas of the Sea of Okhotsk and The Yellow  
Sea, Part 1, by G. U. Lindberg & M. I. Legeza.  
RUSSIAN, per, Akademiya Nauk SSSR, No 68, 1959.  
CFSTI TT 67-51392

Sci/Bar Sci & Oceanog  
Mar 68 351,003

Bavenite in the Skarns of the Batystau Deposit,  
by N. N. Smolianinova, V. A. Moleva.

bk,

RUSSIAN, JINR, Ak Nauk SSSR, 1959, pp 275-278.

Dept of Interior  
QES E57 No 64

191,489

Sci - Geophys

Apr 62

Soviet Geography: Accomplishments and Tasks, by  
I. P. Gerasimov, G. M. Ignat'yev, et al, 409 pp.

RUSSIAN, bk, Akademiya Nauk SSSR, 1962.

Amer Geog Society  
Broadway, 156th St.  
New York 32, New York

USSR  
Geog  
Dec 62

218,093

Subject Plan of the Publishing House of the Academy  
of Sciences of the USSR for 1963.  
RUSSIAN, per, Ak Nauk SSSR, ~~KM~~Moscow, 1962,  
pp 92-107; 122-148; 262-264; 267-273.

ACIC  
TC-685

Sci - Earth Sci  
Dec 64

269,711

Oceanology. (Okeanograficheskaya Komissiya Okeanologiya)

RUSSIAN, per, Ak Nauk SSSR, Vol II, No 5, 1962,  
pp 849-863.

\*OTS 64-11089  
PL-480

Sci  
Feb 64

Certain Principals of Construction of  
Discrete Systems of Control for Azimuthal  
Astronomical Instruments, by S. V. Korotkov,  
V. A. Myashnikov, 30 pp.

RUSSIAN, per, Ak Nauk SSSR. Astron  
Sovet. Komissiya Pribor Novaya Tekh v  
Astron. Materialy Sovesh, 1963, pp 8-38.

P100104366  
ITD-TT-66-38

Sci - Astronomy & Astro  
Dec 66

314,186

Photographic Method for Studying the  
Erratic Nature of Stellar Images, by  
I. P. Rozhnova, Yu. A. Sabinin, 10 pp.  
RUSSIAN, per, Ak Nauk SSSR. Astron Sovet.  
Komissiya Pribor Novaya Tekh v Astron.  
Materialy Sovesh, 1963, pp 39-49. P100104366  
FID-TT-66-38

Sci - Astronomy & Astrophysics  
Dec 66

314,187

Camera With Optical Compensator for Observing  
Artificial Earth Satellites, by  
Kh. I. Potter, 11 pp.  
RUSSIAN, per, Ak Nauk SSSR. Astron Sovet.  
Komissiya Pribor Novaya Tekh v Astron.  
Materialy Sovesh., 1963, pp 50-61. P100104366  
FTD-TI-66-38

Sci - Earth Sci & Astron  
Dec 66

314,188

Control System for the 2.6-Meter Telescope,  
by N. S. Zhurkin, V. M. Konshin, 6 pp.  
RUSSIAN, per, Ak Nauk SSSR. Astronomicheskiy  
Sovet. Komissiya Priborostroyeniya,  
Novaya Tekhnika v Astronomii. Materialy  
Soveshchaniya, 1963, pp 13-16. P100104&66  
FTD-TT-66-38

Sci - Astronomy & astro  
Dec 66

314,185

Obolementsev, R. D., ed.  
CHEMISTRY OF ORGANIC SULFUR COMPOUNDS  
IN PETROLEUM AND PETROLEUM PRODUCTS  
(Khimiya Sera-Organicheskikh Soedinenii, Soder-  
zhashchikhsya v Neftyakh i Nefteproduktakh). 1963,  
199p. 146 refs. PL-480 Int.  
Order from OTS \$2.00

61-31074

Trans. of mono. Akademiya Nauk SSSR, Bashkirskii  
Filial, Materialy Vtoroi Nauchno Sessii po Khimi Sera-  
Organicheskikh Soedinenii, Ufa, 9-12 July 56, pub. 1958.

DESCRIPTORS: Fuels, Chemistry, \*Petroleum,  
Organic compounds, \*Sulfur compounds, \*Oils,  
\*Kerosene, \*Sulfides, \*Thiophenes, \*Thiols, Re-  
agents, \*Sodium compounds, \*Lubricants, \*Corrosive  
liquids, Separation, \*Towers (Chemistry), Purifica-  
tion, Hydrogenation, Desulfurization, \*Ores, Sea-  
bility, Chemical analysis, \*Chromatographic analysis.  
(Materials--Fuels, TT, v. 10, no. 4) (over)

61-31074

- I. Obolementsev, R. D.
- II. PL-480 Int (61-31074)
- III. National Science Foundation,  
Washington, D. C.

Office of Technical Services

Investigation of the Compositon of Organo-sulfur Compounds of Kerosine-Gasoline Fractions of Petroleum, by G. F. Bol'shakov and Ye. A. Glebovskya, RUSSIAN, per, AN SSSR, Bashkirskiy Filial. Khimiya Seraorganicheskikh Soyedineniy Soderznashchikhsya v Neftyakh i Nefteproduktakh, Vol VI, 1964, pp 53-65.

PI00073567  
FTD-MT-65-282

Sci-Chem  
Mar 67

230,276

English Title Unknown,  
RUSSIAN, bk, Akademiya Nauk SSSR, Botanich-  
eskiy Institut FLORA SSSR, Vol I, 1934,  
302 pp.  
\*CFSTI TT 67-51335

Dec 66

Flora of the U.S.S.R., Vol.3,  
by V. L. Komarov, ed., 537p.  
RUSSIAN, per, Akademiya Nauk SSSR.  
Botanicheskii Institut. Flora S.S.R.,  
Vol. 3, 1935, 629p.  
OTS TI-61-31221

333, 595

Sc1  
Jul 67

English Title Unknown,  
RUSSIAN, bk, Akademiya Nauk SSSR, Botanich-  
eskiy Institut FLORA SSSR, Vol IV, 1935,  
760 ppp.  
\*CFSTI TT 67-51336

Dec 66

Flora of the USSR, Vol 12: Leguminosae: Astragalus, 1946, 709 p.  
RUSSIAN, per, Akademii Nauk SSSR, Botanicheskiy Institut, Vol XII, 1946, 709 p.  
CFSTI TT 63-11161

Sci-B&M  
Jun 66  
303,659

Fungi of Transbaikal. Fungi Sibiriae Transbaicalensis,  
by B. A. Tomilin, 25 pp.  
RUSSIAN, per, Akad. Nauk SSSR., Bot Inst. im V. L.  
Komarova Otd Sporovykh Rast Bot Mater., No 16,  
1963, pp 133-150.  
NTIS TT 70-57094

Jan 72

Towards Cognition of Firs Growing on  
Sakhaline, by A. I. Tolmachev.  
RUSSIAN, per, Akademii Nauk SSSR, Botanicheskie  
Materialy. Gerbariya Botanicheskogo Instituta  
imeni V. L. Komarova, Vol 16, 1954,  
pp 29-39.  
\*CFSTI TT 66-51078

USSR  
Sci/Earth Sci  
Jan 66

Информация о растениях Сибири и Дальнего Востока  
Сборник, издан в 1954 г.  
Берлин, by V. V. bogdanov, 33 pp.  
Издательство Академии наук СССР.  
Ботанический Институт. Пустыни  
SSSR 2(32): 483-507. 1954.  
GND 04-11085

USST  
Sci  
Mar 65

275,760

<p>Korchagin, A. A. THE TAXONOMY OF FOREST GROUPINGS (K Voprosu Printsiipakh Klassifikatsii Lesnykh Gruppirovok). 1963, 18p. 27 refs. PL-480 Agr. Order from OTS \$0.50 63-11027  <u>Trans. from Akademiya Nauk SSSR, Botanicheskii Institut. Sbornik Nauchnykh Rabot, 1945.</u>  DESCRIPTORS: *Taxonomy, Forestry, Ecology, Genetics, Plants (Botany), *Trees.  A discussion of the possibilities applying phylogenetically classifications to forest ecosystems.</p> <p>(Biological Sciences--Botany, TT. v. 10, no. 3)</p>	<p>63-11027 I. Korchagin, A. A. II. PL-480 Agr (63-11027) III. National Science Foundation, Washington, D.C.  Office of Technical Services</p>
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Request translation check 3-9-3 BT69-2-115T

English title unk (Izmereniye Optik' -Diffuzionnym  
Metodom Turbulentnosti Vozdushnykh Potokov i Plamen)

A G Prudnikov

collection: AN SSSR, Energeticheskiy Institut im G M  
Krzhizhanovskogo. "Goreniye v Turbulentnom Potoke  
(Combustion in turbulent flow)" Diskussiya na obshchem-  
oskovskom Seminare po Goreniyu pri Energeticheskem  
Institute AN SSSR. Moskva. 1959, 88-140

MT-24-440-69

Sept 15 1961  
JEP (61)

E. V. Bashenova

Yu. S. Lobastov

*On the mechanism of thermal ionization of air, 7 pp.*  
*RUSSIA!, rpt, AI SSSR. Energeticheskiy institut.*  
*Fizicheskaya i mehanika svoystva gazov pri vysokikh*  
*temperaturakh, 1964, pp 17-21*  
AIR/FTD-MT-24-1393-71

may 72

Concentration of Electrons and Number of  
Collisions of Electrons With Molecules of Air  
After a Shock Wave, by T. V. Bazhenova,  
Yu. S. Lobastov. 27 pp.  
RUSSIAN, per, AN SSSR. Energeticheskiy Institut.  
Fizicheskaya Gazodynamika, Teploobmen i Termo-  
namika Gazov Vysokikh Temperatur. 1964,  
pp 29-33. P100190467  
FTD-MT-65-552

Sci/Physics  
Jul 67

331,366

Spectroscopic Investigations of Plasma in  
a Magneto-Hydrodynamic Shock-Tube, by  
Yu. V. Makarov, A. M. Maksimov.  
RUSSIAN, rpt, AN SSSR. Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dinamika Gazov Vysokikh Temperatur, 1964.  
pp 55-58. P100228867-V  
FTD-HT-66-363/1

Sci-Phys  
Ann 67

338 163

Investigation of the Motion of a Plasma in  
a Gas-Discharge Tube Equipped with Coaxial  
Electrodes, by E. K. Chekalin,

V. I. Trukhin. 25pp.

RUSSIAN, bk, Akad. Nauk SSSR. Energeticheskiy Institut. Fizicheskaya Gazodinamika Svoystva Gazov Pri Vysokikh Temperaturakh, 1964, pp 59-72. 9700171

FFB-TF-65-1890

Sci/Physics

May 66

299,473

Effect of Dissipation on the Flow Parameters  
Behind a Shock Discontinuity in a Shock-Tube,  
by T. V. Bazhenova, I. M. Naboko.  
RUSSIAN, rpt, AN SSSR, Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dynamika Gazov Vysokikh Temperatur, 1964,  
pp 80-91. P100228857-V  
FD-147-66-363/2

Sci-Phys  
Aug 67

338,164

Losses on Reflection of Shock Waves from the  
End-Plate in a Shock Tube, by T. V. Bazhenova,  
O. A. Predvoditeleva.  
RUSSIAN, rpt, AN SSSR. Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dinamika Gazov Vysokikh Temperatur, 1964,  
pp 92-99. P10028867-V  
FTD-HT-66-363/3

Sci-Phys  
Aug 67

338,165

Methods of Measurement of Field of Density of Gas  
Flows in a Shock Tube With Help of an Interfero-  
meter, by S. G. Zaytsev, A. P. Shatilov, et al  
27 pp.

RUSSIAN, per, AN SSSR. Energeticheskiy Institut.  
Fizicheskaya Gazodynamika, Teploobmen i Termo-  
namika Gazov Vysokikh Temperatur. 1964,  
pp 104-114. P100190467

FTD-MT-65-552

Sci/Physics  
Jul 67

331,367

Investigation of the Process of Interaction of  
a Reflected Shock Discontinuity with the Bound-  
ary Layer of the Flow Behind and Incident Shock  
Wave, by S. G. Zaytsev, A. P. Shatilov.  
RUSSIAN, per, AN SSSR. Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dinamika Gazov Vysokikh Temperatur, 1964.  
pp 115-118. P100228867-V  
FTD-HT-66-363/4

Sci-Phys  
Aug 67

338,166

Measurement of Density Behind a Reflected  
Shock Discontinuity on Nitrogen, by  
S. G. Zaytsev, A. P. Shatilov.  
RUSSIAN, per, AN SSSR. Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dinamika Gazov Vysokikh Temperatur, 1964,  
pp 119-126. P100228867-V  
FTD-HT-66-363/5

Sci-Phys  
Aug 67

338,167

A Study of Gas Flow in a Shock Tube Using  
Toppler's Method and High-Speed Photography,  
by V. P. Ionov, G. N. Nikolayev.  
RUSSIAN, rpt, AN SSSR, Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dinamika Gazov Vysokikh Temperatur, 1964,  
pp 127-137. P100228867-V  
FD-HT-66-363-6

Sci-Phys

Measurement of the Velocity of Shock Waves  
in Rarified Gases, by G. L. Kabanov.  
RUSSIAN, rpt, AN SSSR. Energeticheskiy Inst.  
Fizicheskaya Gazodinamika, Teploobmen i Termo-  
dinamika Gazov Vysokikh Temperatur, 1964,  
pp 150-156. P100228867-V  
FTD-HT-66-363/7

Sci-Phys  
Aug 67

338,169

Measurement of the Turbulence of Air Flows and  
Flames by the Optical-Diffusion Method, by  
Prudnikov, A. G. 68 pp.  
RUSSIAN, rpt, AN SSSR. Energeticheskiy Institut.  
Goreniye v Turbulentnom Potokе, Moscow, Izd-Vo  
AN SSSR 1959, pp 88-180.  
AIR/FTD/MT-24-440-69

sci/Mathematical Sciences  
apr 70

405,955

Status and Perspectives of Developing Magneto-hydrodynamic Generators, by A. I. Moavtin,  
38 pp.  
RUSSIAN, par. AN SSSR. Energeticheskiy Institut.  
Voprosy Razvitiya Energetiki, 1964, pp 56-79.  
P100365467  
FTD-NL-66-378

Sci-Energy Conv  
Jan 68

348.654

Insects - Lepidoptera - True Moths (Tineidae),  
by A. K. Zaguljaev  
RUSSIAN, rpt, Akademiya Nauk SSSR, Fauna SSR,  
New Series 78, 1960, 266pp  
\*CFSI TT 68-50690

Sci-BM  
Aug 68

Thermonuclear Reactions in a System With Magnetic  
Mirrors and the Question of Direct Transformation  
of Nuclear Energy Into Electrical Energy (Physical  
Principles and Preliminary Calculations), by  
G. I. Budker. Ural.

RUSSIAN, per, Ak Nauk SSSR, Piz Plaz, Vol III,  
1958, pp 1-31.

DSIR LIU (loan) M.360

Sci 59 Nuc phys

90,143

On the Motion of a Charged Particle in  
Rapidly Alternating Electromagnetic Fields, by  
A. A. Vedenov, I. I. Rudakov. UNCL

RUSSIAE, per, Ak Nauk SSSR, Fiz Plaz, Vol IV,  
1958, pp 42-46.

DSIR LLU (loan) M.359

Sci - Electricity  
Jul 59

90, 140

Deviation of Law  $1/v$  of Cross-Section Reactions of Slow  
Neutrons in Light Nuclei, by A. A. Bergman, F.L. Shapiro  
 $\geq 8 \mu$ .

RUSSIAN, per, Fiz Institut ~~Ameni~~ P. N. Lebedeva Ak Nauk  
SSSR, 1960, 22pp. 9Z1 8831

\*AEC - TR - 6153

Sci-Nuc Sci  
Nov 63

Bogdanovich, L. S., Rukhadze, A. A., and Slin, V. P.  
ON THE FLUCTUATIONS OF AN ELECTROMAGNETIC FIELD IN A NONEQUILIBRIUM PLASMA. 7 Feb 63,  
21p. 8 refs.

Free copies available from Boeing Scientific Research  
Labs. Library as Boeing Trans. R46. When supply ex-  
hausted, order from OTS or SLA \$2.60, 63-10860

Trans. of Akademiya Nauk SSSR, Fizicheskii Institut  
[Rept]-A-80, 1962.

DESCRIPTORS: \*Electromagnetic fields, Motion,  
\*Plasma physics, Dielectric properties, Permeability,  
Electric fields, Statistical functions.

The study examines questions of the fluctuation of an  
electromagnetic field in a stable, nonequilibrium plasma,  
and, in particular in an anisothermal plasma and in a  
(Physics-Electronics, TT, v. 10, no. 1) (over)

63-10860

- I. Bogdanovich, L. S.
- II. Rukhadze, A. A.
- III. Slin, V. P.
- IV. Boeing Trans-R46
- V. Boeing Scientific Re-  
search Labs.,  
Seattle, Wash.

Office of Technical Services

Silin, V. P.  
ON THE THEORY OF TRANSPORT PROCESSES IN A  
PLASMA ACROSS A MAGNETIC FIELD. 7 Feb 63,  
17p. 4 refs.

Free copies available from Boeing Scientific Research  
Labs. Library as Boeing Trans. R48. When supply is  
exhausted, order from OTS or SLA \$1.60, 63-10861

Trans. of Akademiya Nauk SSSR, Fizicheskiy Institut.  
[Rept]-A-83, 1962.  
Another trans. is available from OTS or SLA \$1.60 as  
UCRL Trans-869 (L) Sep 62, 12p.

DESCRIPTORS: \*Transport properties, \*Plasma  
physics, Magnetic fields, Plasma oscillations, Theory.

The theory of transport phenomena in a plasma across a  
constant magnetic field is set forth. An important new  
feature is the taking into account of the interaction of the  
(Physics--Electronics, TT, v. 10, no. 1) (over)

63-10861

I. Silin, V. P.  
II. Boeing Trans-348  
III. Boeing Scientific Re-  
search Labs.,  
Seattle, Wash.

Office of Technical Services

Kovrzhnykh, L. M., Rukhadze, A. A., and Silin,  
V. P.  
ON THE OSCILLATIONS OF AN INHOMOGENEOUS  
LOW-PRESSURE PLASMA, [1963] 21p 23refs  
Order from OTS, SLA, or ETC \$2.60 TT-64-14622

Trans. of Akademiya Nauk SSSR, Fizicheskii  
Institut, [Rep]l-A-7, 1962. (Abstract available)

DESCRIPTORS: \*Plasma oscillations, \*Magnetic pinch,  
Electrons, Ions, Temperature, Field theory, Integral  
equations.

The method of geometrical optics is extended to electro-  
dynamics with spatial dispersion in which the field  
equations are integral equations. This method is used  
for the analysis of the problem of the stability of mag-  
netic confinement of a plasma. The dispersion equation  
for the longitudinal oscillations is obtained. An analysis  
(Physics, TT, v. 11, no. 11) (over)

TT-64-14622

I. Kovrzhnykh, L. M.  
II. Rukhadze, A. A.  
III. Silin, V. P.

Office of Technical Services

<p>Kuleshov, V. F. and Rukhadze, A. A. ON THE THEORY OF THE INTERACTION OF A BEAM OF CHARGED PARTICLES AND AN INHOMO- GENEOUS PLASMA. POTENTIAL OSCILLATIONS. I. [1963] 27p 13refs Order from OTS or SLA \$2.60      63-20697</p> <p>Trans. of Akademiya Nauk SSSR, Fizicheskiy Institut, [Rept.] A-25, 1963, p. 1-26.</p> <p>DESCRIPTORS: *Particle beams, *Charged particles, Excitation, Electromagnetic waves, *Plasma oscil- lations, *Plasma physics, Dielectric properties, Permeability (Magnetic),</p> <p>The interaction of a low-density inhomogeneous beam of charged particles and an inhomogeneous plasma is investigated in the study. The dielectric permeability tensor of an inhomogeneous plasma is generalized to the case of a plasma-beam system. A detailed study (Physics--Electronics, TT, v. 10, no. 12)      (over)</p>	<p>63-20697</p> <p>I. Kuleshov, V. F. II. Rukhadze, A. A. III. Title: Potential ...</p> <p>Office of Technical Services</p>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------

Radiation during Scattering of Charged Particles on Electromagnetic Waves of an Isotropic Plasma, by A. Gaylitis and V. N. Tsytovich,

23 pp.  
RUSSIAN, per, AN SSSR. Fizicheskiy Institut.

Laboratoriya Uskoriteley, 1964, pp 1-30.

P100325367  
FTD-HT-67-55

Sci-Physics  
Dec 67

344,451

Total Mirror Reflection of Molecules at Small  
Angles of Incidence and Its Influence on Molecular  
Flow of Gas in Very Narrow Capillaries, by  
B. V. Deryagin, N. N. Fedyakin, 17 pp.  
RUSSIAN, rpt, AN SSSR. Institut Fizicheskoy Khimii.  
Sbornik Dokladov na Vtoroy Konferentsii, 1964,  
pp 244-257. P100168268-V  
FTD-HT-23-786-67

Sci/Phys  
Aug 68

364,769

Secondary Electronic Emission of Copper and of  
Certain Coatings, by D. B. Diatropov. 10 pp.  
RUSSIAN, per, Akad Nauk SSSR, Fizicheskaya  
Laboratoriya, Elektronika Bol'sikh Noshchnostey,  
No 2, 1963, pp 148-156. 9700332  
FTD-TT-65-1539

Sci/Electronics<sup>1</sup>  
May 66

301,080

Experimental Study of a Wave Converter, by  
P. I. Kapitsa, and L. A. Prozorova,  
RUSSIAN, per, Ak Nauk SSSR, Fizicheskaya Lab-  
oratoriya, Elektronika Bol'sikh Koskhnostey,  
No 4, 1956, pp 55-55.  
\*AGSI J-1582  
ID 2204001067

Sci-Electr & Electr Engr  
Jan 67

Investigation of Pulse Spectra from a Single  
Pair of Ions in a Proportional Counter, by  
A. A. Ponomariov, I. P. Sazina. 19 pp.  
RUSSIAN, per, Akademiya Nauk SSSR, Institut  
Fiziki, Preprint No 173.

AEC/ANL/tr 739

sci/physics  
oct 69

395,250

On the Excitation of Atoms of Alkali Metals, by  
L. Vainshtein, V. Opykhtin, et al. 17 pp.  
RUSSIAN, per, Akademiya Nauk SSSR, Institut  
Fiziki, Report A-53, 1964.  
AEC 103-168

Sci/Physics  
Jun 66

301,109

Study of Plasma Turbulence in a High Current  
Toroidal Discharge by Means of Superhigh-  
Frequency Probing, by M. M. Larionov,  
16 pp.  
RUSSIAN, rpt., AK Nauk SSSR, Order of Lenin,  
A. F. Ioffe Physico-Tech. Inst.  
AEC-MATT-Tr-61 P911278468-V

Sci/Phy  
Nov 68                    352,958

Electronic and Atomic Collisions Bibliography  
of Russian Literature for Years 1946-1966,  
69 pp.  
RUSSIAN, rpt., Akad Nauk SSSR, Leningrad, Fiz-Tekh  
Institute.  
AEC/TR-7093

*AEC-TR*

402,627

Mar 70

Linear Wave Transformation in an Inhomogeneous  
Magnetoactive Plasma, by A. D. Piliya, 18 pp.  
RUSSIAN, rpt, FTI-144, Akad Nauk SSSR, Leningrad,  
Fiziko Tekh Institute.  
AEC-Tr-7069

Sci/Phy

402.555

Electron Microscopy in Physicochemical Research,  
by V. M. Luk'yanovich, 15 pp.  
RUSSIAN, rpt, AN SSSR. Institut Fizicheskoy  
Zhimii. "Elektronnaya Mikroskopiya v Fiziko-  
Khimicheskikh Issledovaniyakh". 1960, pp 3-14.

F100150468-V  
FTD-HF-23-725-67

Sci-Chem  
Aug 68

361.772

Interaction of a Beam of Runaway Electrons  
with the Plasma in a Stellarator, by  
P. Ya. Burchenko, B. T. Vasilenko, 10 pp.  
RUSSIAN, rpt, AK Nauk UKSSR, Physico-Tech.  
Institute. P911040468  
AEC-MATT-Tr-44

352,961

Sci/Phy  
Nov 68

Turbulent Heating of Plasma Ions During the Growth  
of Electron-Acoustic Instability, by V. L. Sizonenko,

20 pp.

RUSSIAN, rpt, Akad Nauk Ukr SSR, Fiziko-Tekh Inst,

~~SECRET~~ FTI-213

\*AEC

Sci/Phy  
Feb 70

Magnetic Configuration with Width and Minimum B.,  
by V. F. Aleksin, 17 pp.  
RUSSIAN, rpt, FTI-217, Akad Nauk Ukr SSR, Fiziko-Tech  
Institute.  
\*AEC

Sci/Phy  
Feb 70

~~40-205~~

On the Morphology of Pollen and Spores of the  
Recent Plants in the USSR, by A. N. Sladkov,  
12 pp. <sup>K</sup> <sup>Geolog.</sup>  
RUSSIAN, per, Academiya Nauk SSSR, Geolog.  
Institut., Doklady Sovetskikh Palinologov K  
Pervoi Mezhdunarodnoi Palinologicheskoi  
Konferentsiy, 1962, pp 5-16.  
■CFSTI TM 69-55056/3

Sci-B&M  
Feb 69

Metastable phases in Titanium Alloys, as well  
as their formation mechanism and Kinetics, by  
S.G. Fedotov.  
RUSSIAN, rpt, Akad Nauk SSR Gos. Kom. po Chern.  
i Tsvetn. Met. pri Gosplane SSSR, Inst. Met.  
Issled. Metal. v. Zhidkom i Tverd., 1964,  
pp 207-240.  
\*FTD-MT-24-194-67

Sci-Materials  
Aug 67

326,369

Results of Calculations of Nuclear Fission  
According to a Liquid-Drop Model, by V. M.  
Strutinskiy, 44 pp.

RUSSIAN, per, Akademija Nauk SSSR, Institut  
Atomnoi Energetiki, 1963 . 9211405

AEC UCRL-Tr 978

344,111

Sci Nuclear Sci  
Sep 63

Quasi-Static Liquid-Drop Model of Nucleus as  
Approximation of the Statistical Model by V. M.  
Strutinakiy and A. S. Tyapin, 14 pp.

RUSSIAN, per, Akademiya Nauk SSSR, Na Na Ordena Lenina  
Institut Atomnoi Energii, 1963.

AEC-tr-5955

SCI- Nuc Sci  
Oct 63

photoelectric scanning devices of automatic search and tracking, using methods of multi-element scanning, by V. A. Strelkov.  
RUSSIA, rpt, no. 805, Institut Avtomatiki i  
Telemechaniki, 1963, pp. 323-330. PI00341367  
FTD-M-67-68

Sci/Navigation  
Jan 68

845,908

Method of Potential Functions in the  
Problem of Reconstruction of the  
Characteristic of a Functional  
Converter According to Randomly  
Observed Points, by M. A. Ayzerman,  
E. M. Braverman, et al, 19 pp.  
RUSSIAN, per, Institut Avtomatiki i  
Telemekhaniki Sektor Obshchikh Voprosov  
Avtomatiki Problema Rasshireniya  
Vozmozhnostey Avtomatov, No 3, 1964,  
pp 1-23. P100146867  
FTD MT 64-534

327,263

Sci-Maxx Math  
Jun 67

The Effect of the Irradiated NaCl Aqueous Solutions  
on the Viscosity of Tissue Nucleoproteins, by  
Yu. F. Malina, et al.  
RUSSIAN, per, Akad. Nauk SSSR, Institut Biologicheskoi Fiziki, 1960, pp 91-96.

\*AEC 2426

Sci/B&M  
Sep 66

Role of Peroxides and Oxygen in the First Stages  
of the Radiobiological Effect. Oxygen and the  
Theory of the Primary Radiobiological Effect,  
by Ya. L. Shekhtman.  
RUSSIAN, per, Akad. Nauk SSSR, Institut Bio-  
gicheskoi Fiziki, 1969, pp 116-135. P911069467  
AMC NP-tr-1483

Sci/B&M  
Mar 67

318,645

Role of Peroxides and Oxygen in the First Stages  
of the Radiobiological Effect. The Phenomenon  
of the Oxygen After-Effect in Radiobiology, by  
L. M. Midus.  
SUBSTAN, per, Akad. Nauk SSSR, Inst. Biologi-  
cheskoi Fiziki, 1960, pp 136-145. P911069567  
AEC MP-tr-1481

Sci/BGM  
Mar 67

520,615

Some Properties of the Oxygen Effect, by  
S. N. Ardashnikov.  
RUSSIAN, per, Akad. Nauk SSSR, Institut biologicheskoi Fiziki, 1960, pp 146-152.  
\*ABC 2427

Sci/BGM  
Sep 66

The Effect of General Vertical Vibration of Functional Condition of Vestibular Apparatus in Guinea Pigs, by Z. I. Apanasenko.  
RUSSIA!, per, Akademiya Nauk SSSR, Institut Biologicheskoy Fiziki, 1964, pp 76-84.  
\*FTI-IT-23-1474-67

Sci/B61  
nov 67

Effect of Total Vertical Vibration on  
Functional State of the Vestibular  
Apparatus in Guinea Pigs, by

Z. I. Apanasenko, 9 pp.  
RUSSIAN, per, AN SSSR. Institut Biologicheskoy Fiziki. Vliyaniye Ioniziruyushchikh Izlucheniy i Dinamicheskikh Faktorov na Funktsii Tsentral'noy Nervnoy Sistemy. Voprosy Kosmicheskoy Fiziologii, 1964, pp 76-84.

AIR/FTD/HT-23-1474-67

353,272

Sci/B&M  
Jan 69

V  
Combined Effect of Vibration and Ionizing Radiation  
of the Functional State of the Spinal Reflex Arc.  
by N. A. Kuznetsova.  
RUSSIAN, bk, AN SSSR, Institut Biologicheskoy  
Fiziki. Vliyaniye ioniziruyushchikh izlucheniy i  
dinamicheskikh faktorov na funktsii Tsentral'noy  
Nervnoy Sistemy; Voprosy Kosmicheskoy Fiziologii.  
1964, pp 122-127. F100124668-V  
FTD-IT-24-142-67

B771  
Sci.-Phys  
Jul 68

359,889

The Effect of Whole-Body Vertical Vibration and  
X-rays on the Nucleus of Cells of Bone Marrow-  
Cells of Mammals, by Yu. S. Demin.  
RUSSIAN, bk, AN SSSR. Institut Biologicheskoy  
Fiziki. Vliyaniye Ioniziruyushchikh Izlucheniy i  
Difraktsionnykh Faktorov na Funktsii Tsentral'noy  
Nervnoy Sistemy; Voprosy Kosmicheskoy Fiziologii.  
1964, pp 161-181. P100124668-V  
FTB-MT-24-142-67

Sci-Phys  
Jul 68

359,890

On the Construction of Programming Devices with  
Monitoring and Correction, by M. B. Ignat'yev and  
V. V. Mikhaylov, 15 pp.  
RUSSIAN, per, AN SSSR. Institut Elektromekhaniki.  
Avtomatika, Telenekhanika i Priborostroyeniye,  
1964, pp 161-172. P100303367  
FTD-MT-67-42

Sci-Electronics and  
Electrical Engr.  
Dec 67

344,435

Self-Monitoring, Self-Correction  
and Self-Repair as Means to Improved  
Reliability of Complex Digital Systems,  
by A. N. Radchenko, 19 pp.  
RUSSIAN, rpt, An SSSR Institut Elektromekhaniki  
Avtomatika, Telemekhanika i Priborostroyeniye,  
1964, pp 241-256. P100143467  
FTD HT 66-597

Sci\_Elect

A Direct Current Motor with no Contacts and a  
Transistor Commutator, by N.I. Lebedev,  
I. Ye. Ovchinnikov. 19 pp.  
RUSSIAN, per, Ak Nauk SSSR. Institut Elektro-  
mekhaniki. Shornik Rabot Po Voprosam Elektro-  
mekhaniki, No 9, 1963, pp 131-145. P100010866  
FTD-TP-65-2035

Electro & Electrical Engr.

Sep 66

309, \$55

An Automatic Control System for a Stellar  
Interferometer, by Yu. A. Sabinin & P. V.  
Nikolayev, 22 pp.  
RUSSIAN, per, AN SSSR, Institut Elektronmekhaniki.  
Sbornik Rabot Po Voprosam Elektronmekhaniki, No 9,  
1963, pp 161-175. P100366167  
FTD-HT-66-366

Sci/Astrom & Astrophys  
Jan 68 348,345

Statistical Phenomena in Heterogeneous Systems.  
Problems in Kinetics and Catalysis, 5 pp.  
RUSSIAN, rpt, AK NAUK SSSR, Institut Physical  
Chem, 1949.  
AEC/BNL-Tr-319-69

Sci/Phy  
May 70

Western Siberia, by G.D. Rikhter, 6 pp.  
RUSSIAN, journal, Akademiya Nauk SSSR, Insti-  
tut Geografii, Moscow 1963, pp. 129-134.  
Dept of Navy NOO tr 347

Sci/Earth Sci. and  
Oceanography  
Nov-Dec 67

351,514

Winter Elk Census in the Central-Belt Forest,  
by P. B. Jurgenson.  
RUSSIAN, per, Akademiya Nauk SSSR, Institut  
Geografii Resursov i promyslovykh zverei v  
SSSR i ikh uchet, Moskva, Izdatel'stvo Akademii  
Nauk SSSR, 1963, pp 118-124.  
CFSTI TT 68-50385

Sci/B & M

Radiometry, by Vladimir I. Baranov.

RUSSIAN, bk., Akademiya Nauk SSSR Institut Geokhimi  
i Analiticheskoi Khimii im V. I. Vernadskogo, 1956.

AEC Tr-4432

Sci - Chem  
May 61

150324

Cause of Considerable Dispersion of the Isotopic  
Composition of Sedimentary Sulphides, by A. P.  
Vinogradov.  
RUSSIAN, per, Akademia Nauk SSSR, Inst. Geokhimii  
k Analiticheskoi Khimii im. V. I. Bernardskogo,  
No 2, 1964, pp 8-581  
NZDIA

Sci -  
Jul 67

334,112

Tectonic Features of Certain Ore Fields Related  
to Folded Structure, by V. V. Kolesnikov, I. Z.

Korin, 11pp  
RUSSIAN, per, Ak Nauk SSSR, Institut Geo Rudnykh  
Mestorozhdenii, Petrograf Mineral Geokhim, Trudy,  
1961, No 41, pp 86-98

AGI

Sci - ES  
June 67

329,436

The Multilevel Distribution of Low-Temperature  
Oreimpregnations, by V. P. Fedorchuk, 6pp  
RUSSIAN, per, Ak Nauk SSSR, Institut Geol Rudynykh  
Mestorozhdenii, Petrograf Mineral i Geokhim,  
Tr, 1961, No 41, pp 99-105  
AGI

Sci - ES  
June 67

329, 134

Certain Characteristic~~x~~ of the Mechanism of the  
Development of Boudinage Structures in Quartz-  
Diopside Rocks in the Southwest of the Lake  
Baikal' Territory, by I. S. Delitsin,  
RUSSIAN, per, Ak Nauk SSSR, Inst geol Rudnykh  
Mestorozhdenii, Petrograf Minera Geokhim Trudy,  
1961, No 41, pp 106-118  
AGI

Sci - ES  
June 67

329,432

Physical-Mechanical Properties of Rocks, by  
RUSSIAN, rpt, Akademiya Nauk SSSR, Institut  
Geologiy Rudnykh Mestorozhdeniy, Petrografiya  
Mineralogiya i Geokhimi, 1964, 150 pp.  
\*CFSTI TT 67-51256

Sci-Ear Sci  
Nov 66

Further Studies of Chemical Aspects of the  
Reaction between Carbon and Water Vapour, by  
B. Derman.  
RUSSIAN, per, Akademiya Nauk SSSR Institut  
Goryuchikh Iskopаемых, No 19, 1962, pp 3-160  
CSIRO/No 7285

Sci -  
Jul 67            334,506

Theory of Shock Waves and Introduction to Gas  
Dynamics, by Ya. B. Zel'dovich. 231 pp  
RUSSIAN, per, AN SSSR, Institut Khimicheskoy  
Fiziki, 1946. P100102868-V  
FTD-HT-66-258

Sci/Phys  
June 68

359,314

Electric Conductivity of Highly Refractory  
Oxides at High Temperatures, by S. F. Pal'guyev,  
A. D. Neuymin, 23 pp.  
RUSSIAN, rpt. An SSSR, Institut Khimi Silikatov,  
"Silikaty i Okisly v Khimii Vysokikh Temperatur,"  
1963, pp 118-134. P100196368-V  
FTD-MT-66-126

Sci/Mat  
Sept 68

364,984

Diffusion Into the Cell Walls of Wood, by Yu  
Ivanov.  
RUSSIAN, per, Akad. Nauk SSSR. Instituta Lesa I  
Drevesiny. Trudy, Vol 65, 1963, pp 65-63.  
(CSIRO/No. 7306

Sci -  
Sept 67

339,974

Friction and Wear in Machinery. Vol  
XVIII. New Lubricants in Machines.  
RUSSIAN, spt, Akademii Nauk SSSR Inst.  
 Mashinovedeniya, Moscow, 1964, 177 p.  
 \*CFSTI TT 66-51155

Sci-MGM  
Feb 66

Friction and Wear in Machinery. Vol XIX.  
Wear and Friction of Metals and Plastics.  
RUSSIAN, rpt, Akademii Nauk SSSR Inst.  
Mashinovedeniya, Moscow, 1964, 190 p.  
\*CFSTI TT 66-51156

Sci-M&M  
Feb 66

Certain Possibilities of Using Irradiation for  
Surface Hardening of Metals, by P. Ye. D'yachenko  
& P. K. Oshchepkov, 5 pp.  
RUSSIAN, per, AN SSSR, Institut Mashinovedeniya.  
Kachestvo Povarkhnosti Detalej Mashin, No 5,  
1961, pp 27-31. P100118368-V  
FTD-MT-24-195-67

Sci/Mat  
Jul 68

360,110

Antiwear Properties of Steel in the  
Presence of Polymer Powders, by  
G. V. Vinogradov, Yu. Ya. Podol'skiy,

9 pp.

RUSSIAN, per, AN SSSR. Institut  
Mashinovedeniya Treniye i Iznos v  
Mashinalakh, No 19, 1964, pp 127-137  
F100202168-V  
FTD-HT-23-502-67

Sci/Materials  
Sep 68

364,224

Distribution of Strains and Stresses in Flat  
Notched Bars Associated with a Three-  
Dimensional Stressed State, by V. S.  
Zimkovskiy, 26 pp.

RUSSIA, per, AK Nauk SSSR, Inst Mash Problemy  
Prochnosti v Mashinostroyenii, No 2, 1959,  
pp 54-71. 9670047

ATTIC MCL-610/1

Sci - Engr

157,499

JUL 6

Elastic Halfspace with Spherical Cavity, by  
G. G. Chankvetadze.  
RUSSIAN, per, Akademiya Nauk SSSR. Institut  
Mekhaniki Inzhenernyi Sbornik, Vol 28, 1955,  
pp 65-73.  
NTC-69-16427-20K

Sci-Phys  
Feb 70

402,947

The Unidimensional Problem of Thermal  
Stresses in Elasto-Plastic Media, by  
V. A. Lomakin.  
RUSSIAN, per, Akademiya Nauk SSSR, Inst  
Mekhaniki. Inzhenernyy Sbornik, Vol 25,  
1959, pp 174-178.  
NTC 69-10941-20K

Sci-Phys  
May 69

382,721

REQ TR CHECK 15-7-36 TL96

THERMAL EXPANSION OF CHROMIUM AND SOLID  
SOLUTIONS BASED ON CHROMIUM  
AGEYEV N V  
UR: AN SSSR: INSTITUT MET. nr 10, 1963,  
pp 15-22

In process as

MT-24-71-1398

Negative  
2/2/71

Rare-earth Metals and Their Compounds as  
Materials for Thermionic Cathodes, by  
B. V. Bondarenko and B. M. Tsarev.  
RUSSIAN, per, Akademiya Nauk SSSR, Institut  
Metallurgii im A. A. Baykova, 1964, pp 86-91.  
ATD Tr T-65-45

Ang 65

287,007